

IN THE CLAIMS:

Claims 1-7 (Cancelled)

Part B1

1 8. (Currently Amended) A method for treatment of
2 diabetes mellitus consisting of the step of administering a quantity of a
3 flavonoid selected from the group consisting of luteolin, myricetin,
4 dihydrokaemferol, apigenin, quereetin and mixtures thereof to result in a
5 reduction in blood glucose.

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1 9. (Original) The method of Claim 8, wherein a mixture
2 of luteolin, dihydrokaemferol and apigenin is administered.

1 10. (Original) The method of Claim 9, wherein the molar
2 concentration of luteolin is at least twice that of dihydrokaemferol and
3 apigenin added together.

Claims 11-17 (Cancelled)

1 18. (New) A method for treatment of diabetes mellitus
2 consisting of the step of administering a quantity of luteolin to result in a
3 reduction in blood glucose.

1 19. (New) The method for treatment of diabetes mellitus
2 according to Claim 18, wherein the step of administering further consists of
3 administering a quantity of a flavonoid selected from the group consisting of
4 myricetin, dihydrokaemferol, apigenin, and mixtures thereof to result in a
5 reduction in blood glucose.

1 20. (New) The method for treatment of diabetes mellitus
2 according to Claim 19, wherein the step of administering further consists of
3 administering a quantity of quercetin.

1 21. (New!) The method for treatment of diabetes
2 mellitus according to Claim 19, wherein a mixture of luteolin,
3 dihydrokaemferol and apigenin is administered.

1 22. (New) The method for treatment of diabetes mellitus
2 according to Claim 21, wherein the molar concentration of luteolin is at least
3 twice that of dihydrokaemferol and apigenin added together.